Minnesota Safety Belt and Motorcycle Helmet Use: August, 2011

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INTRODUCTION

Minnesota experienced 305 vehicle occupant deaths in 2010 (Office of Traffic Safety, 2011). Of those killed, only 45% were wearing safety belts. Traffic crashes, and the resulting deaths and injuries, affect not only the families of the victims involved in the crashes but all of society as well. According to the National Highway Traffic Safety Administration (NHTSA, 2006), 85 percent of all medical costs incurred by crash victims fall on society, not the individuals involved. When crash victims are not properly restrained by a safety belt, their medical treatment costs are 50 percent higher than those who were buckled-up (Blincoe et al., 2002).

According to the National Occupant Protection Use Survey (NOPUS) safety belt use in the United States was 84 percent in 2009 (Chen & Ye, 2010), with state belt use rates ranging from 67.6 percent (WY) to 98.0 percent (MI). The 2009 NOPUS also showed that 17 states and territories had use rates of 90 percent or greater. Currently, 49 states¹ and the District of Columbia have mandatory safety belt laws (Insurance Institute for Highway Safety, IIHS, 2008). Thirty-one states, including Minnesota, have primary enforcement while the remaining allows only secondary enforcement.

States with primary enforcement are particularly well positioned to implement successful safety belt media and enforcement campaigns to continue to increase belt use. High-visibility police enforcement of the safety belt law is paired with these media messages to get the word out about zero-tolerance enforcement. The most common method consists of short-term, intense, highly publicized periods of increased safety belt law enforcement called Selective Traffic Enforcement Programs (sTEPs) (Solomon, Compton, & Preusser, 2004). The most successful sTEP program is the widely publicized Click It or Ticket (CIOT) campaign. In 1993, North Carolina became the first state to use the "Click it or Ticket" slogan. Following the program's success, the slogan was adopted by many other states interested in increasing their belt use rate.

Although the Minnesota CIOT campaign activities took place in May 2011, it is important to continue to track statewide trends in safety belt use. The study reported

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¹ This excludes New Hampshire where an adult safety belt law does not exist.

here is the 17th full Minnesota statewide survey of safety belt use conducted since the state redesigned the survey in 2003. This survey wave will continue to track the effects of Minnesota's primary belt law (that took effect in 2009) on safety belt use in the state. This survey will also provide information to track longitudinal changes in safety belt use in Minnesota by several demographic and vehicle characteristics. In addition, the current survey wave collects information about how many motorcyclists are wearing helmets on Minnesota roadways, allowing us to continue tracking helmet use trends in order to understand the scope of this potential problem in the state.

METHODS

Sample Design

The goal of this sample design was to select observation sites that accurately represent front-outboard vehicle occupants in eligible commercial and noncommercial vehicles (i.e., passenger cars, vans/minivans, sport-utility vehicles, and pickup trucks) in Minnesota, while following federal guidelines for safety belt survey design (NHTSA, 1992, 1998). An ideal sample minimizes total survey error while providing sites that can be surveyed efficiently and economically. To achieve this goal, NHTSA guidelines allow states to omit from their sample space the lowest population counties, provided these counties collectively account for 15 percent or less of the state's total population. Therefore, all 87 Minnesota counties were rank ordered by population (US Census Bureau, 2003) and the low population counties were eliminated from the sample space. This step reduced the sample space to 37 counties.

These 37 counties were then separated into four strata. The strata were constructed by obtaining historical belt use rates and vehicle miles of travel (VMT) for each county. Historical belt use rates were determined by examining results from three previous statewide safety belt surveys conducted in Minnesota. Since no historical data were available for 22 of the counties, belt use rates for these counties were estimated using multiple regression based on educational attainment for the other 15 counties (r² = .35; US Census Bureau, 2003).² This factor has been shown previously to correlate positively with belt use. Hennepin County was chosen as a separate stratum because of its disproportionately high VMT. Three other strata were constructed by rank ordering each county by historical belt use rates and then adjusting the stratum boundaries until the total VMT was roughly equal within each stratum. The stratum boundaries were high belt use, medium belt use, low belt use, and Hennepin County. Hennepin County VMT was slightly lower than the collective VMTs in the other strata (94%). Stratum boundaries for the sample space are shown in Table 1.

To achieve the NHTSA required precision of less than 5 percent relative error, the minimum number of observation sites for the survey was determined based on

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² Educational attainment was defined as the proportion of population in the county over 25 years of age with a bachelor degree.

within- and between-county variances from previous belt use surveys and on an estimated 50 vehicles per observation period in the current survey. This number was then increased (N = 240) to get an adequate representation of belt use for each day of the week and for all daylight hours.

Because total VMT within each stratum was roughly equal, observation sites were evenly divided among the strata (60 each). In addition, since an estimated 29 percent of all traffic in Minnesota occurs on limited-access roadways (Federal Highway Administration, 2002), each stratum was further divided into two strata, one of which contained 17 limited access sites (exit ramps) to represent the 29% of VMT on limited access roadways and one that contained 43 roadway intersections. Thus, the sample design had a total of 8 strata.

Table 1: Listing	Table 1: Listing of the Counties Within Each Stratum			
Stratum	Counties			
High Belt Use Stratum 1: intersections Stratum 5: exit ramps	Carver, Dakota, Olmsted, Ramsey, Wright			
Hennepin Stratum 2: intersections Stratum 6: exit ramps	Hennepin			
Medium Belt Use Stratum 3: intersections Stratum 7: exit ramps	Beltrami, Blue Earth, Clay, Crow Wing, Freeborn, Goodhue, Kandiyohi, Nicollet, Rice, Scott, Sherburne, St. Louis, Steele, Washington			
Low Belt Use Stratum 4: intersections Stratum 8: exit ramps	Anoka, Becker, Benton, Brown, Carlton, Cass, Chisago, Douglas, Isanti, Itasca, McLeod, Morrison, Mower, Otter Tail, Polk, Stearns, Winona			

Within each intersection stratum, observation sites were randomly assigned to a location using a method that ensured each intersection within a stratum an equal probability of selection. Detailed, equal-scale road maps for each county within the sample space were obtained and a grid pattern was overlaid on the maps. The lines of the grid were separated by 1/4 inch, thus creating grid squares that were about 3/4 of a mile per side. The grid patterns were created by printing a grid design onto transparencies and uniquely identifying each grid square by two numbers, a horizontal (x) coordinate and a vertical (y) coordinate. Additional grid transparencies were printed until enough were available to cover all counties within the stratum. Each transparency was numbered to allow for a simpler grid square numbering scheme.

The 43 local intersection sites were chosen by first randomly selecting a transparency number and then a random x and a random y coordinate within the identified transparency grid sheet. If a single intersection was contained within the square, that intersection was chosen as an observation site. If the square did not fall within the stratum, or there was no intersection within the square, then a new transparency number and x, y coordinate were randomly selected. If more than one intersection was within the grid square, the grid square was subdivided into four equal sections and a random number between 1 and 4 was selected until one of the intersections was chosen. Thus, each intersection within the stratum had an equal probability of selection.

Once a site was chosen, the following procedure was used to determine the particular street and direction of traffic flow that would be observed. intersection, all possible combinations of street and traffic flow were determined. From this set of observer locations, one location was randomly selected with a probability equal to 1/number of locations. For example, if the intersection, was a "+" intersection, as shown in Figure 1, there would then be four possible combinations of street and direction of traffic flow to be observed (observers watched traffic only on the side of the street on which they were standing). In Figure 1, observer location number one indicates that the observer would watch southbound traffic and stand next to Main Street. For observer location number two, the observer would watch eastbound traffic and stand next to Second Street, and so on. In this example, a random number between 1 and 4 would be selected to determine the observer location for this specific site. The probability of selecting a given standing location is dependent upon the type of intersection. Four-legged intersections like that shown in Figure 1 have four possible observer locations, while three-legged intersections like "T" and "Y" intersections have only three possible observer locations. The effect of this slight difference in probability accounts for .01 percent or less of the standard error in the belt use estimate.

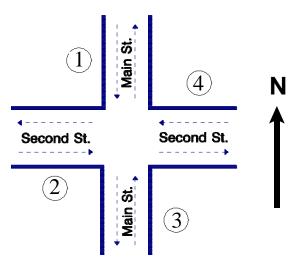


Figure 1. An Example "+" Intersection Showing 4 Possible Observer Locations.

For each primary intersection site, an alternate site was also selected. The alternate sites were chosen within a five square mile area around the grid square containing the original intersection. This was achieved by randomly picking an x, y grid coordinate within an alternate site grid transparency consisting of 7 squares horizontally by 7 squares vertically, centered around the primary site. Coordinates were selected until a grid square containing an intersection was found. The observer location at the alternate intersection was determined in the same way as at the primary site.

The 17 freeway exit ramp sites for the exit ramp strata were also selected using a method that allowed equal probability of selection for each exit ramp within the stratum.³ This was done by enumerating all of the exit ramps within a stratum and randomly selecting, without replacement, 17 numbers between 1 and the number of exit ramps in the stratum. For example, in the low belt use stratum there were a total of 75 exit ramps; therefore a random number between 1 and 75 was generated. This number corresponded to a specific exit ramp within the stratum. To select the next exit ramp, another random number between 1 and 75 was selected with the restriction that no previously selected numbers could be chosen. Once the exit ramps were determined, the observer location for the actual observation was determined by enumerating all possible combinations of direction of traffic flow and sides of the ramp on which to stand. As in the determination of the observer locations at the roadway intersections, the possibilities were then randomly sampled with equal probability. The alternate exit

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⁴ An exit ramp is defined here as egress from a limited-access freeway, irrespective of the direction of travel. Thus, on a north-south freeway corridor, the north and south bound exit ramps at a particular cross street are considered a single exit ramp location.

ramp sites were selected by taking the first interchange encountered after randomly selecting a direction of travel along the freeway from the primary site. If this alternate site was outside the county or if it was already selected as a primary site, then the other direction of travel along the freeway was used.

After all sites and standing locations were randomly selected, all intersection and exit ramp sites were visited by a researcher prior to the beginning of data collection to determine their usability. If an intersection site had no traffic control device on the selected direction of travel, but had traffic control on the intersecting street, the researcher randomly picked a new standing location using a coin flip. If an exit ramp site had no traffic control on the selected direction of travel, the researcher randomly picked a travel direction and lane that had such a device.

The day of week and time of day for site observations were quasi-randomly assigned to sites in such a way that all days of the week and all daylight hours (7:00 am - 6:00 pm) had essentially equal probability of selection. The sites were observed using a clustering procedure. That is, sites that were located spatially adjacent to each other were considered to be a cluster. Within each cluster, a shortest route between all of the sites was decided (essentially a loop) and each site was numbered. An observer watched traffic at all sites in the cluster during a single day. The day in which the cluster was to be observed was randomly determined. After taking into consideration the time required to finish all sites before dark, a random starting time for the day was selected. In addition, a random number between one and the number of sites in the cluster was selected. This number determined the site within the cluster where the first observation would take place. The observer then visited sites following a clockwise or counter-clockwise loop. The direction of the loop was determined by the project manager prior to sending the observers into the field. Because of various scheduling limitations (e.g., observer availability, number of hours worked per week) certain days and/or times were selected that could not be observed. When this occurred, a new day and/or time was randomly selected until a usable one was found. The important issue about the randomization is that the day and time assignments for observations at the sites were not correlated with belt use at a site. This quasi-random method is random with respect to this issue.

The observation interval was a constant duration (50 minutes) for each site. However, since all vehicles passing an observer could not be surveyed, a vehicle count of all eligible vehicles (i.e., passenger cars, vans/minivans, sport-utility vehicles, and pickup trucks) on the traffic leg under observation was conducted for a set duration (5 minutes) immediately prior to and immediately following the observation period (10 minutes total). These counts were used to estimate the number of possible observations so that sites could be weighted by traffic volume.

Data Collection

Data collection for the survey involved direct observation of shoulder belt use, estimated age, and sex. Trained field staff observed shoulder belt use of drivers and front-right passengers traveling in passenger cars, sport-utility vehicles, vans/minivans, and pickup trucks during daylight hours August 5 - 30, 2011. Observations of safety belt use, sex, age, vehicle type, and vehicle purpose (commercial or noncommercial) were conducted when a vehicle came to a stop at a traffic light or a stop sign. Vehicles were included without regard to the state in which the vehicle was registered.

Data Collection Forms

Data were collected using personal digital assistants (PDAs). For a more detailed description of the PDA data collection process, see Appendix A. To begin, an electronic form was developed for data collection containing: a site description section and a safety belt observation section. For each site surveyed, separate electronic copies of the form were created in advance. The site description form section allowed observers to provide descriptive information including the site location, site type (freeway exit ramp or intersection), site choice (primary or alternate), observer number, date, day of week, time of day, weather, and a count of eligible vehicles traveling on the proper traffic leg. A place on the form was also furnished for observers to electronically sketch the intersection and to identify observation location. Finally, a comments section was available to identify landmarks that might be helpful in characterizing the site (e.g., school, shopping mall) and to discuss problems or issues relevant to the site or study.

The safety belt observation section of the form was used to record safety belt use or motorcycle helmet use, passenger information, and vehicle information. For each

vehicle surveyed, shoulder belt use or helmet use, sex, and estimated age of the driver and the front-outboard passenger (or motorcycle passenger) were recorded along with vehicle type. Children riding in child restraint devices (CRDs) were recorded but not included in any part of the analysis. Occupants observed with their shoulder belt worn under the arm or behind the back were noted but considered belted in the analysis. The observer also recorded whether the vehicle was commercial or noncommercial. A commercial vehicle is defined as a vehicle that is used for business purposes and may or may not contain company logos. This classification includes vehicles marked with commercial lettering or logos, or vehicles with ladders or other tools on them.

Procedures at Each Site

All sites in the sample were visited by one observer for a period of one hour. Upon arriving at a site, the observer determined whether observations were possible at the site. If observations were not possible (e.g., due to construction), the observer proceeded to the alternate site. Otherwise, the observer completed the site description form and then moved to their observation position near the traffic control device. Observers were instructed to observe only vehicles in the lane immediately adjacent to the curb, regardless of the number of lanes present.

At each site, observers conducted a 5-minute count of all eligible vehicles in the designated traffic leg before beginning safety belt observations. Observations began immediately after completion of the count and continued for 50 minutes. During the observation period, observers recorded data for as many eligible vehicles as they could observe. If traffic flow was heavy, observers were instructed to record data for the first eligible vehicle they saw, and then look up and record data for the next eligible vehicle they saw, continuing this process for the remainder of the observation period. At the end of the observation period, a second 5-minute vehicle count was conducted.

Observer Training

Prior to data collection, members of the Minnesota Department of Public Safety, Office of Traffic Safety staff were trained on field data collection procedures. The training of OTS staff included both classroom review of data collection procedures and practice field observations. Field observers were then hired and trained by OTS staff on

the proper procedures for data collection. Each observer received a training manual containing detailed information on field procedures for observations, data collection forms, and administrative policies and procedures. A site schedule identifying the location, date, time, and traffic leg to be observed for each site was included in the manual (see Appendix B for a listing of the sites). During data collection, observers were spot checked in the field by a field supervisor to ensure adherence to study protocols.

Data Processing and Estimation Procedures

The safety belt data were entered into PDAs directly, so no additional data entry was required. For each site, computer analysis programs determined the number of observed vehicles, belted and unbelted drivers, belted and unbelted passengers, and use and nonuse of motorcycle helmets for drivers and passengers. Separate counts were made for each independent variable in the survey (i.e., site type, time of day, day of week, weather, sex, age, seating position, and vehicle type). This information was combined with the site information to create a file used for generating study results.

As mentioned earlier, our goal in this safety belt survey was to estimate belt use for the state of Minnesota based on VMT. As also discussed, not all eligible vehicles passing the observer could be included in the survey. To correct for this limitation, the vehicle count information was used to weight the observed traffic volumes so that an estimate of traffic volume at the site could be derived.

This weighting was done by first adding each of the two 5-minute counts and then multiplying this number by five so that it would represent a 50-minute duration. The resulting number was the estimated number of vehicles passing through the site if all eligible vehicles had been included in the survey during the observation period at that site. The estimated count for each site is divided by the actual number of vehicles observed there to obtain a volume weighting factor for that site. These weights are then applied to the number of actual vehicles of each type observed at each site to yield the weighted N for the total number of drivers and passengers, and total number of belted drivers and passengers for each vehicle type. All analyses reported are based upon the weighted values.

Estimation of Safety Belt Use Rates

The overall safety belt use rate for Minnesota was calculated utilizing the following procedure. The safety belt use rate for each stratum was calculated using the following formula:

$$R_s = \sum \frac{est_i}{obs_i} belted_i / \sum \frac{est_i}{obs_i} occs_i$$

Where R_s is the use rate for a stratum, i is a site in the stratum, est_i is the estimated number of possible observations had every eligible vehicle been recorded (based on the vehicle counts), obs_i is the actual number of people observed, $belted_i$ is the number of people observed using a safety belt, and $occs_i$ is the number of occupants.

Because the number of intersections among the first four strata and the number of exit ramps among the last four strata differed, the probability of an intersection or exit ramp being randomly selected differed between strata. Therefore, we painstakingly counted all intersections in the first four strata and all exit ramps in the last four strata and used these counts to weight use rates when combining them. The first four strata (intersections) were combined using the following formula:

$$R_{i} = \frac{\frac{4N_{1}}{N_{all}}R_{1} + \frac{4N_{2}}{N_{all}}R_{2} + \frac{4N_{3}}{N_{all}}R_{3} + \frac{4N_{4}}{N_{all}}R_{4}}{\frac{4N_{1}}{N_{all}} + \frac{4N_{2}}{N_{all}} + \frac{4N_{3}}{N_{all}} + \frac{4N_{4}}{N_{all}}}$$

$$R_i = \frac{N_1 R_1 + N_2 R_2 + N_3 R_3 + N_4 R_4}{N_1 + N_2 + N_3 + N_4}$$

where R_i is the combined use rate for the first four strata (intersections), N_1 is the total number of intersections in stratum 1 and so on, and N_{all} is the total number of intersections among all four strata. The use rate for the exit ramp strata (strata 5-8) was calculated using the following formula:

$$R_{e} = \frac{\frac{4 N_{5}}{N_{all}} R_{5} + \frac{4 N_{6}}{N_{all}} R_{6} + \frac{4 N_{7}}{N_{all}} R_{7} + \frac{4 N_{8}}{N_{all}} R_{8}}{\frac{4 N_{5}}{N_{all}} + \frac{4 N_{6}}{N_{all}} + \frac{4 N_{7}}{N_{all}} + \frac{4 N_{8}}{N_{all}}}$$

$$R_{e} = \frac{N_{5}R_{5} + N_{6}R_{6} + N_{7}R_{7} + N_{8}R_{8}}{N_{5} + N_{6} + N_{7} + N_{8}}$$

where R_e is the combined use rate for strata 5-8 (exit ramps), N_5 is the total number of exit ramps in stratum 5 and so on, and N_{all} is the total number of exit ramps among all four strata.

Because only statewide VMT for limited access roadways was available and because only 29 percent of Minnesota travel is on limited access roadways, the statewide safety belt rate was determined weighting R_e and R_i by their VMT using the following equation:

$$R_{MN} = \frac{VMT_i R_i + VMT_e R_e}{VMT_i + VMT_e}$$

Estimation of Variance

The variances for the belt use estimates for each strata were calculated using an equation derived from Cochran's (1977) equation 11.30 from section 11.8:

$$\operatorname{var}_{(n)} \approx \frac{n}{n-1} \sum_{i} \left(\frac{g_{i}}{\sum g_{k}} \right)^{2} (r_{i} - r)^{2} + \frac{n}{N} \sum_{i} \left(\frac{g_{i}}{\sum g_{k}} \right)^{2} \frac{g_{i}^{2}}{g_{i}}$$

where $var(r_i)$ equals the variance within a stratum, n is the number of observed intersections, g_i is the weighted number of vehicle occupants at intersection I, g_k is the total weighted number of occupants at all sites within the stratum, r_i is the weighted belt use rate at intersection I, r is the stratum belt use rate, N is the total number of intersections within a stratum, and $s_i = r_i(1-r_i)$. In the actual calculation of the stratum variances, the second term of this equation was negligible and was dropped in the variance calculations as is common practice.

Again because the number of intersections and exit ramps differed among the strata, when the variances were combined, they were weighted by the number of intersection/exit ramps within each strata. The variances for the first four (intersection) strata were combined using the following formula:

$$\operatorname{var}(Ri) = \left(\frac{N_1}{N_{all}}\right)^2 \operatorname{var}(R_1) + \left(\frac{N_2}{N_{all}}\right)^2 \operatorname{var}(R_2) + \left(\frac{N_3}{N_{all}}\right)^2 \operatorname{var}(R_3) + \left(\frac{N_4}{N_{all}}\right)^2 \operatorname{var}(R_4)$$

The variance for the exit ramp strata were combined using the following formula:

$$\operatorname{var}(\operatorname{Re}) = \left(\frac{N_5}{N_{all}}\right)^2 \operatorname{var}(\boldsymbol{R}_5) + \left(\frac{N_6}{N_{all}}\right)^2 \operatorname{var}(\boldsymbol{R}_6) + \left(\frac{N_7}{N_{all}}\right)^2 \operatorname{var}(\boldsymbol{R}_7) + \left(\frac{N_8}{N_{all}}\right)^2 \operatorname{var}(\boldsymbol{R}_8)$$

The overall variance was determined by weighting the intersection and exit ramp variances relative to the statewide VMT for these types of roadways using the following equation:

$$var(R) = \frac{\left(VMT_i\right)^2 var(R_i) + \left(VMT_e\right)^2 var(R_e)}{\left(VMT_i + VMT_e\right)^2}$$

The 95 percent confidence band was calculated using the formula:

95% ConfidenceBand =
$$R \pm 1.96\sqrt{\text{var}(R)}$$

Finally, the relative error or precision of the estimate was computed using the formula:

Re lativeError =
$$\frac{SE}{R}$$

where SE is the standard error. The federal guidelines (NHTSA, 1992, 1998) stipulate that the relative error of the belt use estimate must be under 5 percent.

RESULTS

This survey reports statewide safety belt use for four vehicle types combined (passenger cars, vans/minivans, sport-utility vehicles, and pickup trucks) and use rates for occupants in each vehicle type separately. In addition, motorcycle helmet use data are reported on motorcycle riders. Following NHTSA (1998) guidelines, the survey included commercial vehicles. Thus, all rates shown in this report include occupants from both commercial and noncommercial vehicles.

Overall Safety Belt Use

Table 3 shows that the estimated safety belt use rate in Minnesota for all front-outboard occupants traveling in passenger cars, sport-utility vehicles, vans/minivans, and pickup trucks in the front-outboard positions in Minnesota during August 2011 was 92.7 ± 1.1 percent. The "±" value following the use rate indicates a 95 percent confidence interval around the percentage. The relative error for the statewide safety belt use rate of 0.6 percent was well below the 5 percent maximum level required by NHTSA.

Table 3: Safety Belt Use Rates and Unweighted Ns as a function of Stratum, Roadway Type, and Overall Statewide Safety Belt Use			
	Percent Use	Unweighted N	
Stratum 1 (High, Intersections)	91.3	1,406	
Stratum 2 (Hennepin, Intersections)	94.1	2,153	
Stratum 3 (Medium, Intersections)	94.8	935	
Stratum 4 (Low, Intersections)	89.9	1,455	
Stratum 5 (High, Exit Ramps)	93.5	1,816	
Stratum 6 (Hennepin, Exit Ramps)	95.9	1,343	
Stratum 7 (Medium, Exit Ramps)	93.5	974	
Stratum 8 (Low, Exit Ramps)	91.6	943	
Minnesota, Intersections	92.2	5,949	
Minnesota, Exit Ramps	93.9	5,076	
STATE OF MINNESOTA	92.7 ± 1.1%	11,025	

Safety Belt Use by Subcategory

Vehicle Type and Stratum. Estimated belt use rates and unweighted numbers of occupants by stratum and vehicle type are shown in Tables 4a through 4d. Within each vehicle type we find little systematic differences in safety belt use by stratum. However, comparing across vehicle types and strata, we find that safety belt use is lower for pickup truck occupants in nearly all cases. Thus, enforcement and public information and education (PI&E) programs should continue to target pickup truck occupants.

Table 4a. Percent Shoulder Belt Use by Stratum (Passenger Cars)			
	Percent Use	Unweighted N	
Stratum 1	91.6	655	
Stratum 2	95.1	1,019	
Stratum 3	96.0	420	
Stratum 4	92.6	611	
Stratum 5	93.7	967	
Stratum 6	95.0	745	
Stratum 7	91.2	441	
Stratum 8	92.6	447	
STATE OF MINNESOTA	93.8 ± 1.0%	5,305	

Table 4b. Percent Shoulder Belt Use by Stratum (Sport-Utility Vehicles)			
	Percent Use	Unweighted N	
Stratum 1	94.0	332	
Stratum 2	95.5	596	
Stratum 3	92.0	192	
Stratum 4	88.9	322	
Stratum 5	93.5	395	
Stratum 6	98.6	326	
Stratum 7	95.9	237	
Stratum 8	94.5	185	
STATE OF MINNESOTA	92.5 ± 2.3 %	2,585	

Table 4c. Percent Shoulder Belt Use by Stratum (Vans/Minivans)				
	Percent Use	Unweighted N		
Stratum 1	90.2	181		
Stratum 2	96.8	247		
Stratum 3	98.2	128		
Stratum 4	93.5	187		
Stratum 5	96.6	249		
Stratum 6	98.7	152		
Stratum 7	94.4	146		
Stratum 8	98.4	131		
STATE OF MINNESOTA	95.7 ± 1.4%	1,421		

Table 4d. Percent Shoulder Belt Use by Stratum (Pickup Trucks)				
	Percent Use	Unweighted N		
Stratum 1	87.1	238		
Stratum 2	84.6	291		
Stratum 3	92.7	195		
Stratum 4	83.5	335		
Stratum 5	88.6	205		
Stratum 6	91.2	120		
Stratum 7	95.2	150		
Stratum 8	81.5	180		
STATE OF MINNESOTA	88.0 ± 2.9%	1,714		

Site Type. Estimated safety belt use by type of site, vehicle type, and all vehicles combined is shown in Table 5. Little difference was found by site type.

Time of Day. Estimated safety belt use by time of day, vehicle type, and all vehicles combined is shown in Table 5. Note that these data were collected only during daylight hours. Little systematic difference in belt use was found by time of day, except that belt use tended to be slightly lower during late morning.

Day of Week. Estimated safety belt use by day of week, vehicle type, and all vehicles combined is shown in Table 5. Note that the survey was conducted over a 2-week period. Belt use clearly varied from day to day, few systematic differences were evident.

Weather. Estimated belt use by prevailing weather conditions, vehicle type, and all vehicles combined is shown in Table 5. Very few sites were conducted during rainy weather conditions, yet these sites showed extremely low use of safety belts. Whether people use belts less often in the rain or beltuse observations are simply less accurate in the rain is an important research question. There was little systematic difference in belt use whether it was sunny or cloudy during data collection; a common finding in safety belt research.

Sex. Estimated safety belt use by occupant sex, type of vehicle, and all vehicles combined is shown in Table 5. Estimated safety belt use is higher for females than for males for all vehicle types combined and for each separate vehicle type. The difference in belt use between men and women was greatest for occupants of passenger cars.

Age. Estimated safety belt use by age, vehicle type, and all vehicle types combined is shown in Table 5. As there were very few 0-10-year olds observed in the current study, the estimated safety belt use rate for this age group is not meaningful. Excluding this group, we found that belt use very similar for 11-15 year olds, 16-29 year olds, and 30-64 year olds. There was evidence, however, of a slight increasing trend with age, and the highest belt use rate was observed for those age 65 and older. This pattern shows that new drivers and young vehicle occupants (16-29 years of age) should continue to be a focus of safety belt use messages and programs.

Seating Position. Estimated safety belt use by seating position, vehicle type, and all vehicle types combined is shown in Table 5. Belt varied slightly by seating position, but there were no systematic trends evident.

Age and Sex. Table 6 shows estimated safety belt use rates and unweighted numbers (N) of occupants for all vehicle types combined by age and sex. The belt use rates for the two youngest age groups should be interpreted with caution, and will be excluded from the following discussion, because the unweighted number of occupants is quite low. Belt use for females in all age groups was higher than for males. However, the absolute difference in belt use rates between sexes varied slightly depending upon the age group. One interesting finding from the present survey was that the difference in rates between young men and young women (16-29 years) continues to decrease, and is now

3.5 percentage points. The difference was 7.4 percentage points in 2010 (Eby, Vivoda, & Cavanagh, 2010); 10.7 percentage in 2008 (Eby, Vivoda, & Cavanagh, 2008); 13 percentage points in 2007 (Eby, Vivoda, & Cavanagh, 2007); and 16 percentage points in 2006 (Eby, Vivoda, & Cavanagh, 2006). This narrowing of the difference in belt use among young men and women shows that the primary belt use law in Minnesota is having its intended effect.

Table 5. Percent Shoulder Belt Use and Unweighted N by Vehicle Type and Subgroup										
	All Vel	nicles	Ca	r			Van/Mi	nivan	Pickup Truck	
	Percent Use	N	Percent Use	N	Percent Use	N	Percent Use	N	Percent Use	N
<u>Overall</u>	92.7	11,025	93.8	5,305	92.5	2,585	95.7	1,421	88.0	1,714
Site Type Intersection Exit Ramp	92.2 93.9	5,949 5,076			91.2 95.8			743 678		
Time of Day 7 - 9 a.m. 9 - 11 a.m. 11 - 1 p.m. 1 - 3 p.m.	95.2 88.9 93.4 93.3	2,348	92.1 93.1 94.4	939 932 990 1,145	94.6 87.6 94.5 90.8	537 530	97.7 97.8	265 293 307	81.1 89.7 90.0	332 387 366
3 - 5 p.m. 5 - 7 p.m. Day of Week	92.9 93.9		96.0	1,100 199	90.2 92.0	529 96		82	90.2 94.2	62
Monday Tuesday Wednesday Thursday Friday	93.4 89.3 91.7 90.1 91.6	1,129 1,012 3,148	93.4 91.4 91.4	541 673 569 499 1,646	97.1 90.6 91.8 86.8 86.7	279 358 238 283 724	94.4 95.0 99.2	191 157 118 393	79.6 82.8 84.2 94.1	294 165 112 385
Saturday Sunday <u>Weather</u>	95.7 94.2	1,899 1,114	96.7	939 438	96.7 92.5	454 249	94.1 97.2	234 183	94.9 88.7	244
Sunny Cloudy Rainy	91.8 93.1 64.3	7,014 3,674 337			90.4 93.4 65.4		96.2	907 462 52	86.0 88.7 64.5	613
Sex Male Female	90.4 95.4	5,964 5,033			92.0 93.1	1,229 1,348	93.5 98.0	760 659	87.2 90.8	
Age 0 - 10 11 - 15 16 - 29 30 - 64 65 - Up	92.9 92.3 91.3 93.0 96.6	196 3,596	95.0 93.3 93.9		100 88.8 89.3 93.7 94.1	13 64 695 1,698 109	100 95.0 95.5	4 29 326 951 111	95.6 88.3 84.1 88.9 87.7	27 422
Position Driver Passenger	93.2 92.6	8.713 2,312	93.8 94.1	4,273 1,032	93.9 89.2	2,020 565		1,048 373	89.0 88.3	

Table 6. Percent Shoulder Belt Use and Unweighted N by Age and Sex (All Vehicle Types Combined)					
Age	Ma	ale	Fen	nale	
Group	Percent Use	Unweighted N	Percent Use	Unweighted N	
0 - 10	92.8	22	95.9	14	
11 - 15	91.9	107	93.1	87	
16 - 29	89.6	1,882	93.1	1,707	
30 - 64	89.9	3,580	96.1	2,880	
65 - up	95.4	363	97.7	341	

Safety Belt Use Trends

The current survey marks the 17th full statewide survey that has utilized the survey designed approved by NHTSA in 2003. In addition to the full surveys, MN has also conducted several mini-surveys that yielded overall statewide belt use estimates only. This section examines trends in Minnesota belt use since August 2003.

Statewide Belt Use: Figure 2 shows the estimated overall statewide safety belt use rate for Minnesota from August, 2003 to the present survey conducted in August, 2011. As can be seen in this figure, safety belt use has steadily increased over the past several years, and that use continues to increase. These increases in use can be attributed to the new primary enforcement law and Minnesota's continued efforts to enforce the law.

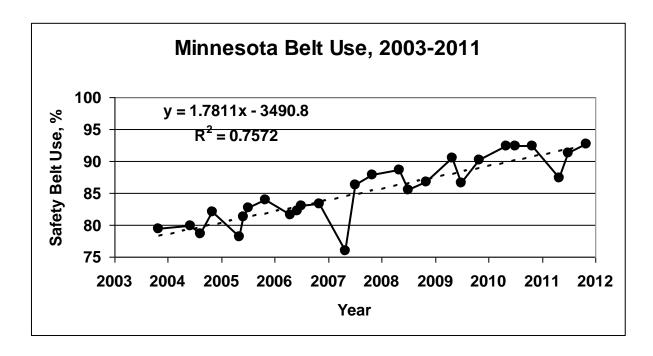


Figure 2: Minnesota safety belt use from 2003 to 2011 and best fitting trend line.

Site Type: Figure 3 shows the estimated statewide safety belt use rates by site type for Minnesota since 2003. Only data from full surveys have been included in this graph, because the mini-surveys have too few observations to make solid estimates of belt use by this variable. As can be seen in this figure, safety belt use at exit ramps has been consistently higher than use at intersections.

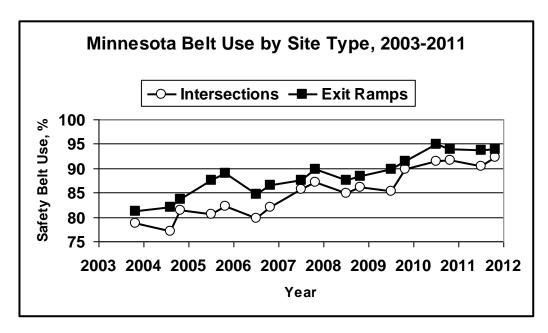


Figure 3: Minnesota safety belt by type of site, 2003-2011.

Sex: Figure 4 shows the estimated statewide safety belt use rate by sex for Minnesota since 2003. As can be seen in this figure, safety belt use for females has been consistently higher than use for males, a common finding in the occupant protection device use literature. Statewide belt use for men in Minnesota increased sharply in late 2009 but has leveled off until the most current survey, where belt use for men was above 90 percent for the first time.

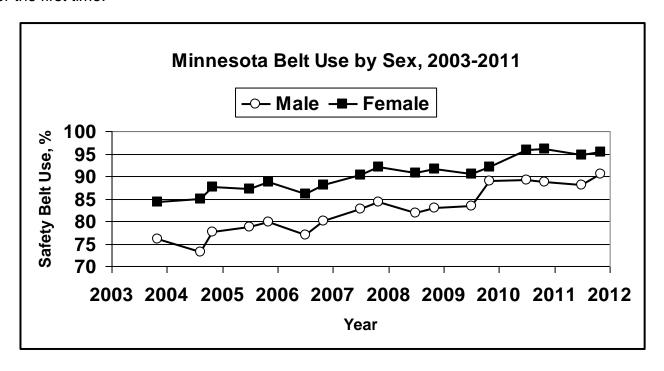


Figure 4: Minnesota safety belt by sex, 2003-2011.

Age: Figure 5 shows the estimated statewide safety belt use rate by age for Minnesota since 2003. As can be seen in this figure, safety belt use for the 16-29-year olds is consistently the lowest of any age group. Interestingly, this graph shows that since the passage of primary enforcement, belt use for these age groups have become much more similar, primarily because of increased use by the young adults. Again, this result shows the positive effect of Minnesota's primary belt use law. Belt use for the two youngest age groups has been excluded from this graph, due to the low number of vehicle occupants in these age groups.

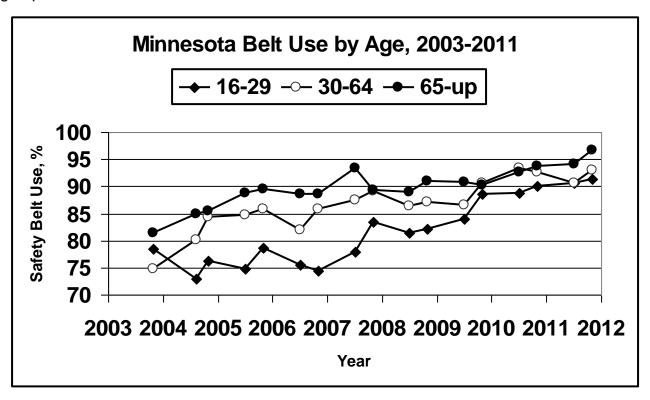


Figure 5: Minnesota safety belt by age, 2003-2011.

Vehicle Type: Figure 6 shows the estimated statewide safety belt use rate by type of vehicle for Minnesota since 2003. As can be seen in this figure, belt use for cars, SUVs, and van/minivans were roughly the same during each survey wave. Safety belt use in pickup trucks, however, has been consistently lower than for other vehicle types. On the positive side, however, belt use for pickup truck occupants seems to still be increasing.

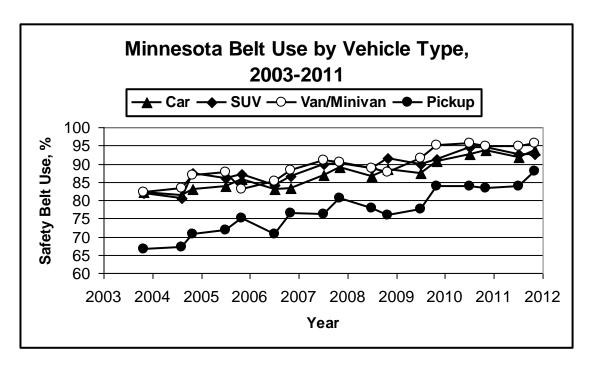


Figure 6: Minnesota safety belt use by vehicle type, 2003-2011.

Seating Position: Figure 7 shows the estimated statewide safety belt use rate by seating position for Minnesota since 2003. There is little difference observed by seating position.

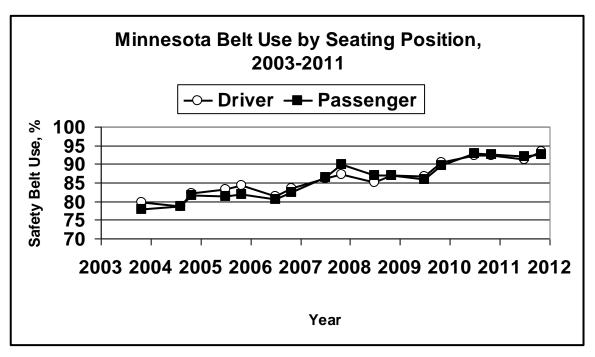


Figure 7: Minnesota safety belt use by Seating Position, 2003-2011.

Motorcycle Helmet Use

The current survey recorded helmet use of motorcycle riders that happen to be observed during the safety belt data collection. Because the safety belt survey design was based on travel patterns of passenger vehicles in Minnesota instead of motorcycle patterns and the low number of motorcycle riders seen in the survey (156 motorcycle riders observed), no weighting of these data were performed. Instead, we present the unweighted helmet use rates so that a picture of the helmet use patterns in Minnesota can be realized. The results are summarized in Table 7.

Table 7: Motorcycle Helmet Use in Mini Demographic Variables	nesota by	1
J ,	Percent Use	N
<u>Overall</u>		
	57.1	156
Time of Day		
7 - 9 a.m.	64.7	17
9 - 11 a.m.	60.0	15
11 - 1 p.m.	46.4	28
1 - 3 p.m.	63.3	30
3 - 5 p.m.	54.1	61
5 - 7 p.m.	80.0	5
Day of Week		_
Monday	40.0	5
Tuesday	63.6	11
Wednesday	65.0	20
Thursday	50.0	10
Friday	65.4	52
Saturday	33.3	24
Sunday	58.8	34
Weather		
Sunny	53.9	102
Cloudy	62.3	53
Rainy	100.0	1
<u>Sex</u>		
Male .	52.9	119
Female	64.3	28
<u>Age</u>		
0 - 10		0
11 - 15		0
16 - 29	59.2	49
30 - 64	54.4	92
65 - Up	50.0	2
<u>Position</u>		400
Driver	55.6	133
Passenger	65.2	23

DISCUSSION

This report has three purposes: (1) to present the results of a full statewide survey of safety belt use, conducted in August 2011; (2) to report and interpret safety belt use trends in Minnesota since August 2003; and (3) to report rates of motorcycle helmet use in Minnesota. All data for the study were collected through direct observation.

The statewide safety belt use survey showed that Minnesota has reached a milestone in statewide belt use, with the rate of 92.7 percent being the highest ever achieved in Minnesota. This increase in belt use can be directly attributed to the passage and continued enforcement of Minnesota's primary safety belt law.

Analysis of safety belt use by the various subgroups showed that there are several areas on which Minnesota should continue to focus efforts to increase safety belt use. One of the lowest use group discovered was young people, particularly males in pickup trucks. While this group has historically been found to have lower safety belt use than other groups, it is also the group in which the biggest gains in traffic-crash-related-injury reduction can be found. On a per mile driven basis, young drivers in the US have the highest rate of involvement in fatal crashes of any age group and their fatality rates are nearly four times greater than the comparable rate for drivers age 26 to 65 (Eby, Molnar, & St. Louis, 2008). Teenage drivers have by far the highest fatal crash involvement rate of any age group, based on number of licensed drivers. Motor vehicle injury rates also show that teenagers continue to have vastly higher rates than the population in general.

We discovered that the difference in safety belt use between males and females is continuing to decrease. This narrowing of the difference in use between sexes shows that the primary enforcement law has had a large effect on men and only a slight effect on women. It will be important to continue to design and implement programs that target young men for increased belt use, as it is likely that over time, belt use for this group will level off.

Occupants of pickup trucks also define a unique population that historically exhibits low safety belt use in Minnesota, and may therefore benefit from specially designed programs. Research has shown that the main demographic differences between the driver/owners of pickup trucks and passenger cars is that driver/owners of pickup trucks are more likely to be male, have higher household incomes, and lower educational levels (Anderson, Winn, & Agran, 1999). Focus group work by the Center for Applied Research (NHTSA, 2004) with rural pickup truck drivers explored why these occupants wear, or do not wear, safety belts. The following reasons were given for nonuse of safety belts: vehicle size protects them from serious injury; safety belt not needed for short or work trips; fear of being trapped in vehicle after a crash; inconsistency between belt law and motorcycle helmet law; and opposition to government mandate. Reasons given for use were: presence of family or friends; travel on interstate highways, travel during inclement weather; and when not traveling in their pickup truck. This information provides a starting point for the development of programs designed to influence pickup truck occupant safety belt use, as efforts to encourage belt use by occupants of pickup trucks are warranted. The Center for Applied Research (NHTSA, 2004) study also suggests passage of mandatory motorcycle helmet use law might also increase belt use among pickup truck drivers.

Our analyses of helmet use showed that 57.1 percent of motorcyclists were using helmets during the current survey. This rate is quite a bit higher than last year's rate of 40.7 percent, but similar to the rate of 61.9 percent observed during 2009 (Eby, Vivoda, & Cavanagh, 2009). Examining the trends in Minnesota's motorcycle helmet use since 2005 reveals a fluctuating rate between about 40 to 60 percent. There are no obvious external factors that would account for the observed changes in helmet use from year to year. It is therefore likely that these are artificial changes related to the fact that the current survey was designed specifically to measure safety belt use on MN roadways based upon vehicle miles traveled of passenger cars. The true helmet use rate for the state likely lies somewhere between 40 to 60 percent, but a more accurate assessment of helmet law compliance would require a survey sample specifically designed to capture travel by motorcyclists.

The current use rate of 57 percent is slightly higher than the national helmet use rate of 54 percent measured in 2010 (Pickrell, 2010). The US rate has significantly declined, however, when compared to the 2009 rate of 67 percent (Pickrell, 2010). The safety implications of this use rate may be magnified even more, as it is likely that about 14 percent of those observed as wearing helmets are using those that do not meet Federal Motor Vehicle Safety Standard 218 (Pickrell, 2010). This standard sets minimum requirements for the construction and crashworthiness of helmets. The two main issues are the helmet thickness and the durability of the chin strap. Many riders purchase helmets that do not meet these requirements which are sold as "novelty" helmets. Novelty helmets do not provide proper protection in a crash. Future surveys of helmet use in Minnesota should attempt to distinguish between legal and novelty helmets during data collection to further explore this issue.

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APPENDIX A: PDA Data Collection Details

In the current study all data collection was conducted using Personal Digital Assistants (PDAs). The transition from paper to PDA data collection was made primarily to decrease the time necessary to move from the end of the data collection phase of a survey to data analysis. With paper data, there is automatically two to three weeks of additional time built-in while the paper data are being entered into an electronic format. Before making this transition, a pilot study was conducted to compare data collection by PDA to paper. Several key factors were tested during the pilot study including accuracy, volume (speed), ease of use, mechanical issues (i.e. battery life), and environmental issues (i.e. weather, daylight). The pilot study found PDA use to be equal to, or better than paper data collection on every factor tested. Before making the change to PDA data collection, electronic versions of the *Site Description Form* and *Observation Form* were developed (these have since been combined into a single electronic form). The following pages show examples of the electronic form and discuss other factors related to using PDAs for safety belt data collection.

The goal of adapting the existing paper forms to an electronic format was to create electronic forms that were very similar to the paper forms, while taking advantage of the advanced, built-in capabilities of the PDA. As such, the electronic data collection form incorporated a built-in traffic counter and included high resolution color on the screens. The site description form (SDF) portion of the data collection form is divided into five screens. The first screen of the SDF (Figure 2) allows users to type in the site location (street names and standing location). Observers use the PDA stylus to tap on the appropriate choices of site type, site choice, and traffic control. If a mistake is made, the observer can change the data they have input, simply by tapping on the correct choice. All selected choices appear highlighted on the screen.

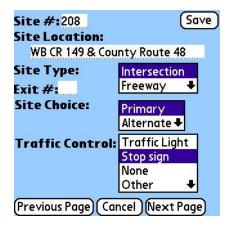


Figure 2. Site Description Form - Screen 1.

Screens 2 and 3 are shown in Figure 3. As seen in this figure, observers enter their observer number, the weather, day of week, and median information, simply by tapping the appropriate choice on the display list. Screen 3 allows users to sketch in the intersection and show where they are standing, and to record the start time for the site.

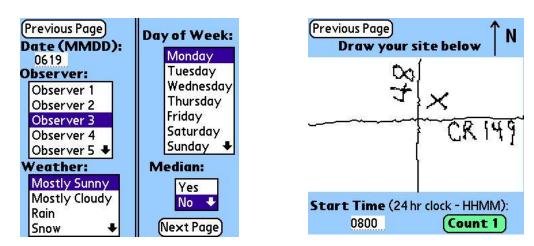


Figure 3. Site Description Form - Screens 2 and 3

In the past, observers had to put away their paper form, get out a mechanical traffic counter, and begin a traffic count after entering the start time. Using a PDA, it is possible to incorporate a traffic counter directly into the site description portion of the data collection form⁴. Figure 4 shows an example of the electronic traffic counter (Screen 4). To count each vehicle that passes, observers tap on the large "+" button. The size of this button allows the observer to tap the screen while keeping their eyes on the roadway. Each tap increases the count that is displayed at the top of the screen. If a mistake is made, the observer can decrease the count by tapping on the small "-" button on the left of the screen.

⁴The PDA traffic counting method was compared with a mechanical counter during the pilot testing and no difference was found between the two methods.

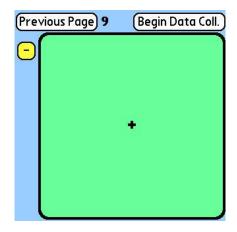


Figure 4. Site Description Form - Screen 4

The last screen of the electronic *Site Description Form*, shown in Figure 5, allows the user to enter the end time of the site observation and interruption (if any). Finally, observers can type in any comments regarding the site or traffic flow that may be important.

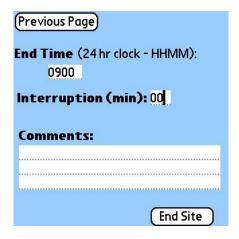


Figure 5. Site Description Form - Screen 5

To allow for easier data entry, the observation portion of the electronic data collection form was divided into three screens, one for vehicle information, one for driver information, and one for front-right passenger information. As shown in Figure 6, each screen is accessible by tapping on the appropriate tab along the top of the screen. The screens have also been designed with different colors, with the vehicle screen yellow, driver screen blue, and passenger screen green. As shown below, the first screen that

appears in the form is the vehicle screen. Each category of data, along with the choices for each category, is displayed on the screen. As in the Site Description Form, users simply tap on the choices that correspond to the motorist that is being observed. These data then appear highlighted on the screen. Since most vehicles are not used for commercial purposes, "Not Commercial" is already highlighted as a default. If the vehicle is commercial, that choice can be selected from the list.

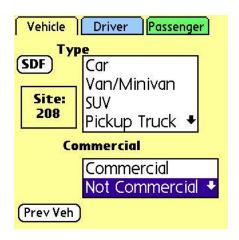


Figure 6. Observation Form - Vehicle Screen

Figure 7 shows the driver and passenger screens. Since most motorists are not actively talking on a cellular phone while driving, and most vehicles do not include a passenger, "No Cell Phone" is already highlighted and the "No Passen." box is already checked as defaults. If the motorist is using a cell phone or if a passenger is present, users select the appropriate choices. Once data are complete for one vehicle, observers tap the "Next Vehicle" button to continue collecting data.

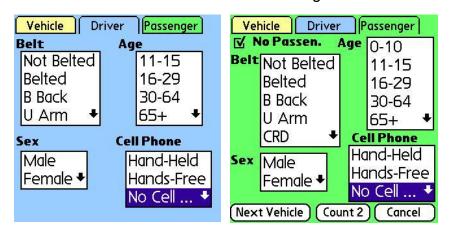


Figure 7. Observation Form - Passenger and Vehicle Screens

Each PDA also had a built-in cellular phone as well as wireless e-mail capability. At regular intervals, observers e-mailed completed data directly from the PDA to the project supervisor. Data collection forms from completed sites were "zipped," using a compression program, and then transmitted directly to a pre-determined e-mail account. The e-mailing of data allowed the field supervisor to immediately check data for errors, and begin to compile a data analysis file as the project progressed.

APPENDIX B: Site Listing

Survey Sites By Number

No.	County	Site Location
001	Dakota	EB 135th St/Co. Rd. 38 & Blaine Ave/County Rout 71/Rich Valley Blvd
002	Olmsted	EB CR 112/County Route 12 & CR 112
003	Carver	EB 150th St/County Route 50 & County Route 41
004	Carver	EB 70th St/County Route 30 & State Route 25/Ash
005	Carver	NB Yancy Ave & State Route 7
006	Carver	SB Little Ave & 102nd St
007	Dakota Wright	EB W 136th St & Nicollet Ave
008 009	Wright Olmsted	WB CR 123 & County Route 7/CR 106 EB CR 120 & County Route 20
010	Wright	EB CR 118/CR18/50th St. & County Route 35/Main St.
*011	Dakota	NB CR 21/Guam Ave & 307th St/CR 90
012	Wright	EB 14th St/CR 112 & State Route 25
013	Dakota	EB 240th St West & Cedar Ave/County Route 23
*014	Dakota	NB Johnny Cake Ridge Rd & Coutny Route 32/Cliff Rd
015	Olmsted	SB County Route 3 & County Route 4
*016	Olmsted	EB CR 137 & CR 136
017	Dakota	EB 80th St & Concord Blvd/County Route 56
018	Dakota	EB 220th St East & Nicolai/County Route 91
019	Dakota	SB Fairgreen Ave & 280th St West/County Route 86
020	Wright	NB County Route 12 & County Route 37
021	Olmsted	WB County Route 9 & County Route 10
*022	Dakota	EB Wescott Rd & Lexington Ave
023 *024	Dakota Wright	NB Hogan Ave/County Route 85 & 220th St East
024	Wright	SB US 12/County Route 16 & Babcock Blvd/County Route 30 EB County Route 38/Harrison St. (Near Oak St/CR 24) & State Route 55/State Route 24
025	Dakota	NB Blaine Ave/CR 79 & 245th St East/County Route 80
*027	Olmsted	SB CR 119 & County Route 9
*028	Dakota	EB County Route 88/290th Street East & Northfield Blvd/County Route 47
*029	Ramsey	NB Hodgson Rd/County Route 49 & Turtle/County Route 3/CR 1
030	Carver	SB Yale Ave/Yancy Ave & County Route 30
031	Olmsted	NB CR 125/Maywood Rd. SW & County Route 25/Salem Rd. SW
032	Olmsted	EB CR 154/85th St. NW & US 52
*033	Wright	SB County Route 12 & State Route 55
*034	Carver	WB 62nd St & County Route 33
*035	Ramsey	EB Minnehaha Ave/State Route 5 & White Bear Ave/County Route 65
*036	Olmsted	SB CR 128 & State Route 247/County Route 12
037	Dakota	SB CR 51/County Route 80/Biscayne Ave & 280th St West/County Route 86
*038 039	Olmsted Dakota	NB CR 132/County Route 32 & County Route 9 SB Inga Ave & State Route 50/240th St East
*040	Dakota	EB County Route 14/Grand Ave. & Concord St/State Route 156
041	Dakota	NB Goodwin Ave & State Route 55
042	Ramsey	NB Rice St & Maryland Ave
043	Dakota	SB Emery Ave & 190th St East/County Route 62
044	Ramsey	NBP I-35 W & Old Hwy 8/Anoka Cutoff (Exit 26)
*045	Ramsey	NBD I-35 E & County Route 23 (Exit 112)
046	Olmsted	WBP I-90 & County Route 10 (Exit 229)
*047	Dakota	SBD I-35 & County Route 50/County Route 5(Exit 85)
048	Ramsey	WBP State Route 36 & Hamline Ave
*049	Dakota	SBD US-52 & Thompson Ave
*050	Ramsey	SBD I-35 E & St. Clair
*051	Dakota	WBD I-494 & Robert St (Exit 67)
052 *053	Dakota Olmsted	NBD I-35 E & State Route 110/Mendota Rd (Exit 101)
*053 054	Olmsted	EBD I-90 & State Route 42 (Exit 224)
054 055	Ramsey Ramsey	SBD I-35 E & Randolph Ave EBD State Route 36 & Lexington Ave/County Route 51
056	Ramsey	EBD US-12/US-52/I-94 & S. Cretin Ave
057	Ramsey	NBP County Route 280 & Energy Park Dr
058	Dakota	SBD US-52/Lafayette Frwy & Butler Ave
059	Ramsey	EBP I-694 & US-61/Maplewood Dr (Exit 48)
060	Ramsey	EBD US-12/US-52/I-94 & Lexington Parkway/County Route 51
061	Hennepin	SB Pineview Ave & 129th Ave

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062	Hennepin	WB Olson Memorial Hwy/State Rotue 55 & County Route 102/Douglas Drive
*063	Hennepin	NB Mohawk Dr & Horseshoe Tr
064	Hennepin	SB County Route 60/Mitchell Rd & State Route 5
065	Hennepin	WB Gleason Lake Rd/County Route 15 & Vicksburg Lane
066	Hennepin	NEB State Route 7 & Chanhassen Rd/State Route 101
067	Hennepin	NB Brown Rd/County Route 146 & Watertown Rd
*068	Hennepin	NB Commerce Blvd & West Branch Rd/County Route 151
069	Hennepin	NB Chanhassen Rd/State Route 101 & Minnetonka Blvd/County Route 5
070	Hennepin	SB County Route 44 & Bartlett Blvd/County Route 110
071	Hennepin	SB Tucker Rd & County Route 116/CR 159/Territorial Rd.
*072	Hennepin	NEB Old Shakopee Rd/County Route 1 & Penn Ave.
073	Hennepin	NWB County Route 81 & 77th Ave North/County Route 152/Brooklyn Blvd.
*074	Hennepin	NB Belchtold Rd & 109th Ave North/County Route 117
075	Hennepin	NB County Route 34/Normandale Blvd & Old Shakopee Rd/County Route 1
*076	Hennepin	NB Penn Ave/County Route 2 & Olson Memorial Highway/State Route 55
077	Hennepin	WB Elm Creek Rd & Fernbrooke Ave/County Route 121
078	Hennepin	NB Pioneer Tr/County Route 113 & Woodland Tr/County Route 10
079	Hennepin	WB Rockford Rd/County Route 9 & Medicine Lake Dr/Larch Lane
*080	Hennepin	SB Lyndale Ave & West 50th St/County Route 21
081	Hennepin	NB Willow Dr & County Route 24
*082	Hennepin	WB 125th Ave North & Zanzibar Lane
083	Hennepin	SB Lyndale Ave & West 82nd St
084	Hennepin	NB Broadway Ave/CR 103/County Route 130 & 85th Ave North/County Route 109
*085	Hennepin	NB Mendelssohn Ave & 63rd Ave
*086	Hennepin	WB N 121st Ave & Fernbrooke/County Route 121
*087	Hennepin	WB Cedar Lake Rd/County Route 16 & Plymouth Rd/County Route 61
880	Hennepin	EB Nike Rd & Main Street/Country Route 92
089	Hennepin	NWB N Nobel Ave & 109th Ave
*090	Hennepin	SB Mohawk Dr & State Route 55
*091	Hennepin	NB County Route 32 & West 82nd Street
092	Hennepin	WB County Route 109/85th Ave N & Country Route 158/Rice Lake Rd.
093	Hennepin	SB Country Route 101 & County Route 42/Wayzata Blvd.
094	Hennepin	NB University Ave & County Route 23
*095	Hennepin	SB Country Route 116/Fletcher Lane & County Route 30/97th Ave N
096	Hennepin	EB County Route 53/66th St. & State Route 77
097	Hennepin	NB Winnetka Ave/County Route 156 & Medicine Lake Rd
098	Hennepin	SB Goose Lake Rd & Elm Creek Rd
*099	Hennepin	WB Medicine Lake Rd/26th St. & Medicine Lake Blvd
100	Hennepin	NB Budd Ave & Pagenkoph Rd
*101	Hennepin	EB Duck Lake Tr & Eden Prarie Rd/County Route 4
102	Hennepin	NB Eden Prarie Rd/County Route 4 & Excelsior Blvd/County Route 3
103	Hennepin	SEB County Route 152/Osseo Rd. & N. Penn/44th Ave.
104	Hennepin	SBD State Route 77 & County Route 1/Old Shakopee Rd
*105	Hennepin	NBD I-35 W & W 82nd St (Exit 8)
106	Hennepin	WBP State Route 62/Crosstown Hwy & Gleason
*107	Hennepin	SBD I-494 & County Route 10/Bass Lake Rd (Exit 26)
*108	Hennepin	WBP I-94/US-12/US-52 & S 25th Ave.
*109	Hennepin	NBP I-35 W & W 35th St/E 35th St
110	Hennepin	WBP I-94/US-52 & County Route 30/Dunkirk Lane (Exit 213)
111	Hennepin	SBD I-35 W & W 66th St/E 66th St
112	Hennepin	NBP US-169 & 36th Ave N
*113	Hennepin	EBP I-494 & Townline Rd/US-169
114	Hennepin	N/WBD I-494 & State Route 55/Olson Memorial Hwy
115	Hennepin	WBP State Route 62/Crosstown Hwy & Tracy Ave
116	Hennepin	SBP State Route 100 & Minnetonka Blvd/County Route 5/Vernon
117	Hennepin	SBP State Route 100 & W 50th St/County Route 21/County Route 158
*118	Hennepin	EBD State Route 62 & Portland Ave South
119	Hennepin	NBP US-169 & Valley View Rd
120	Hennepin	NBD US-169 & Plymouth Ave/13th Ave N
121	Sherburne	NB County Route 73/127th St./County Route 48 & CR 73/185th Ave.
122	St. Louis	WB State Route 135/County Route 102 & US 53/State Route 169
123 124	St. Louis	WB CR 791 & County Route 25 SB Culver Ave & 150th Street W/County Poute 9
124	Rice Beltrami	SB Culver Ave & 150th Street W/County Route 9 SB State Route 72/County Route 36 & County Route 41
*126	Washington	NB Manning & 70th St. S
127	Clay	EB State Route 34 & County Route 25
121	J.W.,	5.6.5 Noute 5 N 5 5 6 11 Noute 20

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128
        Kandiyohi
                        WB 255th Ave Northeast & County Route 9
129
        St. Louis
                        EB County Route 16/CR 957 & US 53
130
        Kandiyohi
                        EB CR 107/240th Ave. & 40th Street NE
131
        Kandiyohi
                        WB 105 Ave SE & CR 136/165th St SE
132
        Blue Earth
                        WB County Route 29/State Route 30 & State Route 22/State Route 30
133
        Freeborn
                        NB US-69 & County Route 46
                        EB CR 105 & County Route 13/County Route 73/90th St. N
134
        Clay
* 135
                        WB State Route 194/Central Entrance & County Route 90/Arlington
        St. Louis
                        SB County Route 3 & State Route 30
136
        Steele
                        WB County Route 13/County Route 38 & US-169
137
        Blue Earth
*138
                        SB US 169 & County Route 4
        Sherburne
*139
        Sherburne
                        EB CR 54/77th St. SE & State Route 25/125th Ave. SE
140
        Freeborn
                        EB CR 115/County Route 23 & County Route 26
                        WB CR 167 & County Route 39
*141
        Blue Earth
142
                        NWB US 10 & County Route 15
        Sherburne
*143
        St. Louis
                        EB State Route 194 & US 53
144
        Freeborn
                        NB County Route 24/County Route 45/Independence Ave & County Route 31/CR
                                 116/Main St.
*145
                        SB County Route 1 & State Route 60
        Goodhue
*146
                        EB County Route 9/CR 78 & US 69
        Freeborn
                        NB County Route 30/CR 107 & County Route 22/CR 108
147
        Blue Earth
148
        St. Louis
                        EB County Route 28/Sax Road & County Route 7
149
        Nicollet
                        EB County Route 15/382nd St. & State Route 15
                        EB Madison Ave/State Route 22 & State Route 22
150
        Blue Earth
*151
        Steele
                        SB 7th Ave NE & County Route 8/Mineral Springs Rd.
152
        Blue Earth
                        EB County Route 25/CR 138 & County Route 20
*153
                        NB County Route 14/CR 173 & State Route 83
        Blue Earth
154
                         EB County Route 12/Roberg Rd & Lakewood Rd/CR 692
        St. Louis
* 155
        Crow Wing
                        NB County Route 25/CR 144 & State Route 18
*156
        Kandiyohi
                        WB 60th Ave SW & County Route 7/135th St.
*157
        Scott
                        EB County Route 2/CR 54 & State Route 13/Langford Ave
*158
                        SB State Route 60 & US 14/State Route 60
        Blue Earth
        Goodhue
                        SB County Route 4 & County Route 10
159
                        SB CR 127/60th St. NE & County Route 26/60th Ave.
160
        Kandiyohi
*161
                        EB 90th Ave./County Route 10 & 70th St./County Route 11/State Route 336
        Clay
        Nicollet
                        NB County Route 7/585TH St. & County Route 1/350th St.
162
163
        Scott
                        EB CR 64/230th St W & State Route 21/Helena Blvd
164
        Steele
                        SBD I-35 & County Route 4 (Exit 32)
                        SBP I-35 & US-53/Piedmont Ave
165
        St. Louis
166
        Freeborn
                        SBP I-35 & County Route 35 (Exit 22)
167
                        EBP I-94 & County Route 10 (Exit 15)
        Clay
168
        Washington
                        N/WBP I-694 & 10th St/County Route 10 (Exit 57)
*169
        Clay
                        WBP I-94 & County Route 52 (Exit 2)
170
        Rice
                        SBP I-35 & State Route 60 (Exit 56)
                        NBD I-35 & County Route 12 (Exit 48)
171
        Steele
*172
                        EBP US-2/US-71 & US-71
        Beltrami
173
        Freeborn
                        EBD I-90 & State Route 13 (Exit 154)
                        SBD I-35 & State Route 251 (Exit 18)
174
        Freeborn
* 175
                        SBP I-35 & S 27th Ave. W (Exit 254)
        St. Louis
*176
        Washington
                        SBP I-35 & Central Ave. (Exit 252)
177
        St. Louis
                        N/EBD I-35 & 46th Ave
178
        Freeborn
                        NBD I-35 & County Route 46? (Exit 11)
*179
                        NBP US-10/US-61 & 80th St/Grange Blvd
        Washington
*180
        St. Louis
                        N/EBD I-35 & Skyline Pkwy/Boundary Dr. (Exit 249)
*181
        Morrison
                         SB CR 264/205th Ave. & County Route 46/183rd St.
182
        Douglas
                         SB County Route 6 & County Route 22
*183
        McLeod
                        WB County Route 26/100th St. & State Route 15
184
        Morrison
                        SB County Route 37 & County Route 26/Nature Rd.
185
        Polk
                        NB County Route 63 & US-2
*186
                        WB County Route 29/CR 107/76th St. & County Route 1
        Cass
*187
                        SB Little Toad Lake Rd/County Route 31 & State Route 87
        Becker
188
        Otter Tail
                        EB County Route 10 & US 59
189
        Otter Tail
                        EB County Route 60/State Route 228 & US 10
190
        Cass
                        WB County Route 34 & State Route 64
191
                        EB County Route 22/CR 102 & County Route 13
        Brown
192
                        SB County Route 6/90th Ave. & County Route 1/State Route 238
        Morrison
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193			
195			
**196 Polk NB County Route \$4 & County Route \$1 197 Polk EB CR 213 & CR 213/County Route 48 **198 Wirnona NEB County Route 44/Huff St. & US 14/US 61 **199 Morrison EB CR 203/County Route 1 & County Route 2 **201 Douglas EB State Route 27 **201 Douglas EB State Route 27 **202 Winona SB CR 67 & County Route 22 **203 Anoka SB CR 67 & County Route 22 **204 Cass EB County Route 12/Pine Rd. & State Route 371 **205 Benton WB County Route 12/Pine Rd. & State Route 25 **206 Becker SB County Route 12/Pine Rd. & State Route 25 **207 Polk NB County Route 12/Pine Rd. & State Route 37 **208 Stearns WB County Route 68 US-75 **209 Isanti SB State Route 47 & County Route 8 State Route 37 **211 Stearns WB County Route 68 County Route 8 **211 Itasca EB US 2/4th St. & State Route 38/3rd Ave. **212 Itasca EB County Route 5/CR 5	194	Stearns	WB CR 146 & State Route 15
197	195	Cass	EB County Route 43/Twp 4/12th St. & State Route 84/County Route 44
198	* 196	Polk	NB County Route 54 & County Route 11
*199 Morrison EB CR 203/County Route 1 & County Route 2 200 Steams SB US 71 & State Route 55 *201 Douglas *B State Route 27 & State Route 29 *202 Winona WB County Route 22 extension (unmarked gravel road North of County Route 115) & County Route 37 *203 Anoka SB CR 67 & County Route 22 *204 Cass EB County Route 66/122nd St. & State Route 371 *205 Benton WB County Route 12/Pine Rd. & State Route 25 *206 Becker SB County Route 49/CR 119 & State Route 87 *207 Polk NB County Route 49/CR 119 & State Route 87 *208 Stearns WB CR 149 & County Route 8 *209 Isanti SB State Route 47 & County Route 8 *210 Otter Tail SB County Route 6 & County Route 59 *211 Itasca EB County Route 2 & County Route 59 *212 Itasca EB US 2/4th St. & State Route 59 *213 McLeod SB County Route 2 Stoute Route 5 *214 Mower EB County Route 1 & US 218 *215 Benton WB 150th St./CR 100 & County Rout	197	Polk	EB CR 213 & CR 213/County Route 48
200	198	Winona	NEB County Route 44/Huff St. & US 14/US 61
*201 Douglas EB State Route 27 & State Route 29 *202 Winona WB County Route 22 extension (unmarked gravel road North of County Route 115) & County Route 37 *203 Anoka SB CR 67 & County Route 22 204 Cass EB County Route 61/22nd St. & State Route 25 206 Becker SB County Route 49/CR 119 & State Route 87 *207 Polk NB County Route 49 & US-57 *208 Stearns WB CR 149 & County Route 48 *209 Isanti SB State Route 47 & County Route 8 *210 Otter Tail EB County Route 6 & County Route 59 *211 Stearns WB Division St/County Route 75 & State Route 15 *212 Itasca EB US 24th St. & State Route 33/3rd Ave. *213 McLeod SB County Route 25/CR 52/5th Ave. S. & US 212 *214 Mower EB County Route 1 & US 218 *215 Benton WB 150th St./CR100 & County Route 2 *217 Anoka SB County Route 40 & County Route 82 *219 Douglas WB County Route 5 & County Route 82 *219 Douglas WB County Route 7 & Co	* 199	Morrison	EB CR 203/County Route 1 & County Route 2
*202 Winona WB County Route 37 *203 Anoka SB CR 67 & County Route 22 204 Cass EB County Route 66/122nd St. & State Route 371 *205 Benton WB County Route 12/Pine Rd. & State Route 25 *206 Becker SB County Route 49/CR 119 & State Route 87 *207 Polk NB County Route 49/CR 119 & State Route 87 *208 Stearns WB CY 419 & County Route 48 *209 Isanti SB State Route 47 & County Route 59 *211 Stearns WB Division St/County Route 5 & State Route 15 *212 Itasca EB US 2/4th St. & State Route 38/3rd Ave. *213 McLeod SB County Route 12 & US 218 *214 Mower EB County Route 1 & US 218 *215 Benton SB County Route 1 & US 218 *216 Brown WB 150th St./CR100 & County Route 2 *217 Anoka SB County Route 10 & County Route 2 *218 Douglas WB County Route 40 & County Route 2 *220 Winona NEB County Route 10 & County Route 10 *221 Stearns<	200	Stearns	SB US 71 & State Route 55
*202 Winona WB County Route 37 *203 Anoka SB CR 67 & County Route 22 204 Cass EB County Route 66/122nd St. & State Route 371 *205 Benton WB County Route 12/Pine Rd. & State Route 25 *206 Becker SB County Route 49/CR 119 & State Route 87 *207 Polk NB County Route 49/CR 119 & State Route 87 *208 Stearns WB CY 419 & County Route 48 *209 Isanti SB State Route 47 & County Route 59 *211 Stearns WB Division St/County Route 5 & State Route 15 *212 Itasca EB US 2/4th St. & State Route 38/3rd Ave. *213 McLeod SB County Route 12 & US 218 *214 Mower EB County Route 1 & US 218 *215 Benton SB County Route 1 & US 218 *216 Brown WB 150th St./CR100 & County Route 2 *217 Anoka SB County Route 10 & County Route 2 *218 Douglas WB County Route 40 & County Route 2 *220 Winona NEB County Route 10 & County Route 10 *221 Stearns<	*201	Douglas	EB State Route 27 & State Route 29
County Route 37 203 Anoka SB CR 67 & County Route 22 204 Cass EB County Route 66/122nd St. & State Route 371 205 Benton WB County Route 66/122nd St. & State Route 25 206 Becker SB County Route 49/CR 119 & State Route 87 207 Polk NB County Route 65 & US-75 208 Stearns WB CR 149 & County Route 48 209 Isanti SB State Route 47 & County Route 8 210 Otter Tail EB County Route 6 & County Route 59 2211 Stearns WB Division St/County Route 75 & State Route 15 2212 Itasca EB US 2/4th St. & State Route 38/3rd Ave. 213 McLeod SB County Route 25/CR 52/5th Ave. S. & US 212 214 Mower EB County Route 25/CR 52/5th Ave. S. & US 212 215 Benton SB County Route 6 & County Route 4 216 Brown WB 150th St./CR100 & County Route 4 217 Anoka SB County Route 6 & County Route 2 219 Douglas NB County Route 40 & County Route 3 220 Winona NEB County Route 10 & County Route 3 221 Stearns SEB County Route 152 & County Route 10 222 Stearns WB County Route 7 & US 14/US 61 223 Isanti NB County Route 75 & County Route 10 224 Cariton SWBP 1-35 & State Route 95 225 Anoka SBP 1-35 W & County Route 25 (Exit 156) 226 Stearns WBD 1-94/US-52 & CR 159 (Exit 156) 227 Winona EBP I-94 & State Route 43 (Exit 239) 238 Stearns EBP I-94 & State Route 23 (Exit 164) 239 Stearns EBP I-94 & State Route 66 240 Otter Tail W/NBP I-90 & State Route 66 251 Anoka WBP I-35 & State Route 65 (Exit 171) 252 Monda WBP I-90 & State Route 66 253 Onuglas Stearns WBP I-34 & County Route 7 (Exit 171) 254 Otter Tail W/NBP I-94 & County Route 50 (Exit 153) 255 Anoka WBP I-35 & State Route 76 (Exit 257) 256 Anoka WBP I-90 & State Route 76 (Exit 257) 257 Stearns WBP I-94 & County Route 7 (Exit 171) 258 Douglas Stearns WBP I-94 & County Route 7 (Exit 171) 259 Anoka WBP I-90 & State Route 66 (Exit 183) 250 Douglas Stearns WBP I-94 & County Route 76 (Exit 171) 250 Douglas Stearns WBP I-94 & County Route 76 (Exit 171) 251 Anoka WBP I-90 & State Route 76 (Exit 171) 252 Stearns WBP I-94 & County Route 79 (Exit 171) 253 Carlton SWBP I-94 & County Route 79 (Exit		•	
*203 Anoka SB CR 67 & County Route 22 204 Cass EB County Route 66/122nd St. & State Route 371 *205 Benton WB County Route 12/Pine Rd. & State Route 25 *206 Becker SB County Route 49/CR 119 & State Route 87 *207 Polk NB County Route 65 & US-75 *208 Stearns WB CR 149 & County Route 48 *209 Isanti SB State Route 47 & County Route 8 *210 Otter Tail EB County Route 6 & County Route 8 *211 Stearns WB Division St/County Route 75 & State Route 15 *212 Itasca EB US 2/4th St. & State Route 38/3rd Ave. *213 McLeod SB County Route 18 US 218 *213 McLeod SB County Route 1 & US 218 *214 Mower EB County Route 6 & County Route 4 *215 Benton SB County Route 6 & County Route 4 *216 Brown WB 150th St./CR100 & County Route 9 *217 Anoka SB County Route 70 & County Route 82 *218 Douglas WB County Route 70 & County Route 80 *221 <td< td=""><td></td><td></td><td></td></td<>			
204 Cass EB County Route 6/2/22nd St. & State Route 25 205 Benton WB County Route 12/Pine Rd. & State Route 25 206 Becker SB County Route 49/CR 119 & State Route 87 *207 Polk NB County Route 65 & US-75 208 Stearns WB CR 149 & County Route 48 209 Isanti SB State Route 47 & County Route 8 210 Otter Tail EB County Route 6 & County Route 59 *211 Stearns WB Division St/County Route 75 & State Route 15 *212 Itasca EB US 2/4th St. & State Route 38/3rd Ave. *213 McLeod SB County Route 25/CR 52/5th Ave. S. & US 212 *214 Mower EB County Route 1 & US 218 *215 Benton SB County Route 1 & US 218 *216 Brown WB 150th St./CR100 & County Route 2 *217 Anoka SB County Route 5/CR 56 & Northern Blvd/County Route 5 *218 Douglas NB County Route 5/CR 56 & Northern Blvd/County Route 5 *219 Douglas WB County Route 10 & County Route 3 *220 Winona NEB County Route 152 & County Route 10	*203	Anoka	
*205 Benton WB County Route 12/Pine Rd. & State Route 25 206 Becker SB County Route 49/CR 119 & State Route 87 *207 Polk NB County Route 65 & US-75 208 Stearns WB CR 149 & County Route 48 209 Isanti SB State Route 47 & County Route 59 *210 Otter Tail EB County Route 6 & County Route 59 *211 Stearns WB Division St/County Route 75 & State Route 15 *212 Itasca EB US 2/4th St. & State Route 38/3rd Ave. *213 McLeod SB County Route 25/CR 52/5th Ave. S. & US 212 *214 Mower EB County Route 1 & US 218 *215 Benton SB County Route 6 & County Route 4 *216 Brown WB 150th St./CR100 & County Route 4 *217 Anoka SB County Route 40 & County Route 82 *218 Douglas NB County Route 70 & County Route 3 *220 Winona NEB County Route 7 & US 14/US 61 *221 Stearns SEB County Route 75 & County Route 10 *222 Stearns WB County Route 75 & State Route 95 <td< td=""><td></td><td></td><td>•</td></td<>			•
206 Becker SB County Route 49/CR 119 & State Route 87 *207 Polk NB County Route 65 & US-75 208 Stearns WB CR 149 & County Route 8 209 Isanti SB State Route 47 & County Route 59 **211 Stearns WB Division St/County Route 75 & State Route 15 **211 Itaca EB US 2/4th St. & State Route 38/3rd Ave. **213 McLeod SB County Route 25/CR 52/5th Ave. S. & US 212 **214 Mower EB County Route 1 & US 218 **215 Benton SB County Route 6 & County Route 4 **216 Brown WB 150th St./CR100 & County Route 2 **217 Anoka SB County Route 5/CR 56 & Northern Blvd/County Route 5 **218 Douglas NB County Route 40 & County Route 82 **219 Douglas NB County Route 10 & County Route 82 **219 Douglas NB County Route 7 & US 14/US 61 **221 Stearns SEB County Route 7 & US 14/US 61 **222 Stearns SEB County Route 7 & US 14/US 61 **223 Isanti NB County Route 7/CR 57 & State Route 95			
*207 Polk NB County Route 65 & US-75 208 Stearns WB CR 149 & County Route 48 209 Isanti SB State Route 47 & County Route 59 *211 Stearns WB Division St/County Route 75 & State Route 15 *212 Itasca EB US 2/4th St. & State Route 38/3rd Ave. *213 McLeod SB County Route 25/CR 52/5th Ave. S. & US 212 *214 Mower EB County Route 1 & US 218 *215 Benton SB County Route 6 & County Route 4 *216 Brown WB 150th St./CR100 & County Route 2 *217 Anoka SB County Route 5/CR 56 & Northern Blvd/County Route 5 *218 Douglas NB County Route 5/CR 56 & Northern Blvd/County Route 5 *219 Douglas NB County Route 9 & County Route 3 *220 Winona NEB County Route 10 & County Route 3 *221 Stearns SEB County Route 75 & County Route 10 *222 Stearns WB County Route 75 & County Route 2 *223 Isanti NB County Route 75 & County Route 2 *224 Carlton SWBP 1-35 & State Route 45 (Exit 239) <			
208 Stearns WB CR 149 & County Route 48 209 Isanti SB State Route 47 & County Route 59 *211 Stearns WB Division St/County Route 75 & State Route 15 *211 Itasca EB US 2/4th St. & State Route 38/3rd Ave. *213 McLeod SB County Route 25/CR 52/5th Ave. S. & US 212 *214 Mower EB County Route 2 5/CR 52/5th Ave. S. & US 212 *215 Benton SB County Route 6 & County Route 4 *216 Brown WB 150th St./CR100 & County Route 4 *216 Brown WB 150th St./CR100 & County Route 4 *216 Brown WB 150th St./CR100 & County Route 2 *217 Anoka SB County Route 5/CR 56 & Northern Blvd/County Route 5 *218 Douglas NB County Route 10 & County Route 3 *220 Winona NEB County Route 7 & US 14/US 61 *221 Stearns SEB County Route 7 & US 14/US 61 *222 Stearns WB County Route 75 & County Route 2 *223 Isanti NB County Route 76 & County Route 2 *224 Carlton SWB P I-35 & State Route 45 (Exit 239)			
209 Isanti SB State Route 47 & County Route 5 210 Otter Tail EB County Route 6 & County Route 59 *211 Stearns WB Division St/County Route 75 & State Route 15 212 Itasca EB US 2/4th St. & State Route 38/3rd Ave. 213 McLeod SB County Route 25/CR 52/5th Ave. S. & US 212 214 Mower EB County Route 25/CR 52/5th Ave. S. & US 212 215 Benton SB County Route 4 216 Brown WB 150th St./CR100 & County Route 4 216 Brown WB 150th St./CR100 & County Route 2 *217 Anoka SB County Route 70/CR 56 & Northern Blvd/County Route 5 218 Douglas NB County Route 70/CR 56 & Northern Blvd/County Route 5 219 Douglas WB County Route 70/CR 56 & Northern Blvd/County Route 5 *220 Winona NEB County Route 70 & County Route 3 *221 Stearns SEB County Route 70 & County Route 10 *222 Stearns WB County Route 75 & County Route 2 *223 Isanti NB County Route 7/CR 57 & State Route 95 *224 Carlton SWBP I		_	·
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*211 Steams WB Division St/County Route 75 & State Route 15 212 Itasca EB US Z/4th St. & State Route 38/3rd Ave. 213 McLeod SB County Route 25/CR 52/5th Ave. S. & US 212 214 Mower EB County Route 1 & US 218 215 Benton SB County Route 6 & County Route 4 216 Brown WB 150th St./CR100 & County Route 2 *217 Anoka SB County Route 5/CR 56 & Northern Blvd/County Route 5 218 Douglas NB County Route 5/CR 56 & Northern Blvd/County Route 5 219 Douglas NB County Route 7 & US 14/US 61 221 Stearns SEB County Route 7 & US 14/US 61 221 Stearns SEB County Route 7 & State Route 95 222 Stearns WB County Route 7/CR 57 & State Route 95 224 Cariton SWBP 1-35 & State Route 45 (Exit 239) *225 Anoka SBP I-35 W & County Route 23/Lake Dr (Exit 36) 226 Stearns WBD I-94/US-52 & CR 159 (Exit 156) 227 Winona EBD I-90 & State Route 23 (Exit 164) *229 Anoka EBP I-94 & State Route 65			
212 Itasca EB US 2/4th St. & State Route 38/3rd Ave. 213 McLeod SB County Route 25/CR 52/5th Ave. S. & US 212 214 Mower EB County Route 1 & US 218 215 Benton SB County Route 6 & County Route 4 216 Brown WB 150th St./CR100 & County Route 2 *217 Anoka SB County Route 5/CR 56 & Northern Blvd/County Route 5 218 Douglas NB County Route 40 & County Route 82 219 Douglas WB County Route 10 & County Route 3 *220 Winona NEB County Route 7 & US 14/US 61 221 Stearns SEB County Route 152 & County Route 10 222 Stearns WB County Route 7/CR 57 & State Route 95 224 Carlton SWBP I-35 & State Route 45 (Exit 239) *225 Anoka SBP I-35 W & County Route 23/Lake Dr (Exit 36) *226 Stearns WBD I-94/US-52 & CR 159 (Exit 156) *227 Winona EBD I-90 & State Route 43 (Exit 249) *228 Stearns EBP I-94 & State Route 65 *230 Chisago SBD I-35 & County Route 10 (Exit 152)			
213 McLeod SB County Route 25/CR 52/5th Ave. S. & US 212 214 Mower EB County Route 1 & US 218 215 Benton SB County Route 6 & County Route 4 216 Brown WB 150th St./CR100 & County Route 2 *217 Anoka SB County Route 5/CR 56 & Northern Blvd/County Route 5 218 Douglas NB County Route 40 & County Route 82 219 Douglas WB County Route 10 & County Route 3 *220 Winona NEB County Route 7 & US 14/US 61 221 Stearns SEB County Route 75 & County Route 10 222 Stearns WB County Route 75 & County Route 2 223 Isanti NB County Route 7/CR 57 & State Route 95 224 Carlton SWBP I-35 & State Route 45 (Exit 239) *225 Anoka SBP I-35 & W & County Route 23/Lake Dr (Exit 36) 226 Stearns WBD I-94/US-52 & CR 159 (Exit 156) 227 Winona EBD I-90 & State Route 23 (Exit 164) *229 Anoka EBP US-10 & State Route 65 *230 Chisago SBD I-35 & County Route 10 (Exit 152)			
214 Mower EB County Route 1 & US 218 215 Benton SB County Route 6 & County Route 4 216 Brown WB 150th St./CR100 & County Route 2 *217 Anoka SB County Route 5/CR 56 & Northern Blvd/County Route 5 218 Douglas NB County Route 40 & County Route 82 219 Douglas WB County Route 10 & County Route 3 *220 Winona NEB County Route 7 & US 14/US 61 221 Stearns SEB County Route 75 & County Route 10 222 Stearns SEB County Route 7/CR 57 & State Route 95 223 Isanti NB County Route 7/CR 57 & State Route 95 224 Carlton SWBP 1-35 & State Route 45 (Exit 239) *225 Anoka SBP 1-35 & W & County Route 23/Lake Dr (Exit 36) 226 Stearns WBD 1-94/US-52 & CR 159 (Exit 156) 227 Winona EBD 1-94 & State Route 43 (Exit 249) 228 Stearns EBP 1-94 & State Route 65 *230 Chisago SBD 1-35 & County Route 10 (Exit 152) 231 Mower WBP 1-90 & State Route 66 (Exit 183) <td< td=""><td></td><td></td><td></td></td<>			
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239 Carlton EBD I-35 & State Route 61 (Exit 245)	_		
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240 Douglas EBP I-94 & State Route 29 (Exit 103)			,
	^240	Douglas	EBP 1-94 & State Route 29 (EXIT 103)

^{*} indicates a site used in the mini survey.